

## ABSTRACT

OFDM signal communication methods and apparatus are described. In accordance with the invention OFDM  
5 signals are generated in the time domain with symbols being mapped to specific points in time. Training symbols may be included in the transmitted OFDM signal to facilitate symbol recovery. An exemplary receiver of the invention receives the OFDM signal from the communications channel, converts it  
10 into the frequency domain, and then filters it in the frequency domain to eliminate tones corresponding to other users. The filtered signal free of MAC interference is then converted into the time domain where channel estimation and compensation operations are performed. After channel  
15 compensation symbol recovery is performed in the time domain.